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AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-01-14-01**	**Date: 19-01-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bnagalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bnagalore.	
Project Name	:	Maintenance of Ward and Emergency Works in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.	
Agency	:	Gowdappa murthy #942, Kodigehalli Sahakaranagara (P) Bangalore-92.	
Customer's Reference	:	BBMP/EE/BTP/WO/121/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	14-01-2017	
Sample ID No	:	2017-01-14-01-04	
Sample Type	:	JSW, Fe 500	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	17-01-2017	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe500	8mm	0.391	542	655	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe500	8mm	Satisfactory	Satisfactory

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Prepared By:
Harshitha

AEE (QRP) SD

Sadha
AE

CIVIL Pro Sig..... Date.....

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-01-14-01**	**Date: 19-01-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bnagalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bnagalore.	
Project Name	:	Maintenance of Ward and Emergency Works in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.	
Agency	:	Gowdappa murthy #942, Kodigehalli Sahakaranagara (P) Bangalore-92.	
Customer's Reference	:	BBMP/EE/BTP/WO/121/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	14-01-2017	
Sample ID No	:	2017-01-14-01-05	
Sample Type	:	JSW, Fe 500	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	17-01-2017	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe500	10mm	0.612	552	668	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe500	10mm	Satisfactory	Satisfactory

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-01-14-01** **Date: 20-01-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Ward and Emergency Works in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Gowdappa murthy #942, Kodigehalli Sahakaranagara (P), Bangalore-92
Customer's Reference	:	BBMP/EE/BTP/WO/121/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	14-01-17
Sample ID No	:	2017-01-14-01/02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	16-01-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	87	87	1.74	98.3	95-100
3	20 mm	2954	3041	60.82	39.2	30-70
4	10 mm	1209	4250	85	15.0	10-35
5	4.75 mm	514	4764	95.28	4.7	0-5
6	Pan	236	5000	100	0.0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-01-14-01** **Date: 20-01-2017**

Sample ID No : 2017-01-14-01/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**13.1**	_
2	Elongation Index(%)	**14.5**	_
3	Specific Gravity	**2.59**	_
4	Bulk Density(Loose) (Kg/l)	**1.52**	_
5	Bulk Density(Compacted) (Kg/l)	**1.58**	_
6	Water Absorption(%)	**0.24**	_

Note:

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Prepared by
Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Sudha AE

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-01-14-01** **Date: 20-01-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Ward and Emergency Works in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Gowdappa murthy #942, Kodigehalli Sahakaranagara (P), Bangalore-92
Customer's Reference	:	BBMP/EE/BTP/WO/121/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-01-17
Sample ID No	:	2017-01-14-01/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	16-01-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	15	15	1.5	98.5	90-100	90-100	90-100	95-100
3	2.36 mm	180	195	19.5	80.5	60-95	75-100	85-100	95-100
4	1.18 mm	351	546	54.6	45.4	30-70	55-90	75-100	90-100
5	600 micron	246	792	79.2	20.8	15-34	35-59	60-79	80-100
6	300 micron	53	845	84.5	15.5	5-20	8-30	12-40	15-50
7	150 micron	66	911	91.1	8.9	0-10	0-10	0-10	0-15
8	Pan	89	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone I

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-01-14-01** **Date: 20-01-17**

Sample ID No : 2017-01-14-01/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	3.12	_
2	Specific Gravity	2.52	_
3	Material finer than 75 micron (%)	7.1	Not more than 15 percent

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Prepared by
Harshitha

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-01-14-01** **Date: 20-01-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Ward and Emergency Works in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Gowdappa murthy #942, Kodigehalli Sahakaranagara (P), Bangalore-92
Customer Reference	:	BBMP/EE/BTP/WO/121/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-01-17
Sample ID No	:	2017-01-14-01/02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	16-01-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	230	230	4.6	95.4	95-100
3	10 mm	3154	3384	67.68	32.3	25-55
4	4.75 mm	1561	4945	98.9	1.1	0-5
5	Pan	55	5000	100	0.0	–

Sadha
AE

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-01-14-01** **Date: 20-01-2017**

Sample ID No : 2017-01-14-01/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	11.5	_
2	Elongation Index(%)	13.1	_
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.57	_
5	Bulk Density(Compacted) (Kg/l)	1.66	_
6	Water Absorption(%)	0.19	_
7	Ten percent fine value(KN)	188.5	_
8	Aggregate crushing Value(%)	23.1	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	22.6	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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Harshitha

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-01-14-01** **Date: 11-02-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Ward and Emergency Works in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Gowdappa murthy #942, Kodigehalli Sahakaranagara (P), Bangalore-92
Customer's Reference	:	BBMP/EE/BTP/WO/121/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-01-17
Sample ID No	:	2017-01-14-01/01
Sample Type	:	Birla Super 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	14-01-2017 to 11-02-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.22	–
2	Finess by Air permeablity method (m^2/kg, Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.22	–
4	Standard Consistency (%)	29.0	Not specified
5	Initial Setting time	255 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-01-14-01** **Date: 11-02-2017**

Sample ID No : **2017-01-14-01/01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	320 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5 mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-02-16-01** **Date: 20-02-2017**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bnagalore.

Address : Vidyaranyapura Sub Division, BBMP, Bnagalore.

Project Name : Maintenance of Ward and Emergency Works in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Gowdappa murthy #942, Kodigehalli Sahakaranagara (P) Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/121/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-02-2017

Sample ID No : 2017-02-16-01-01

Customer ID Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/02/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	12/02/2017	19/02/2017	150.43 X 150.23 X 150.98	22599	8.186	366.1	16.2	16.0
2	Drain Concrete	M20	12/02/2017	19/02/2017	150.23 X 150.55 X 150.44	22617	8.021	357.4	15.8	
3	Drain Concrete	M20	12/02/2017	19/02/2017	150.12 X 150.14 X 150.94	22539	8.198	362.9	16.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-02-16-01** **Date: 13-03-2017**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bnagalore.

Address : Vidyaranyapura Sub Division, BBMP, Bnagalore.

Project Name : Maintenance of Ward and Emergency Works in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Gowdappa murthy #942, Kodigehalli Sahakaranagara (P) Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/121/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-02-2017

Sample ID No : 2017-02-16-01-02

Customer ID Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/03/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	12/02/2017	12/03/2017	150.20 X 150.29 X 150.25	22574	8.120	532.7	23.6	23.7
2	Drain Concrete	M20	12/02/2017	12/03/2017	150.41 X 150.32 X 150.22	22610	8.171	544.9	24.1	
3	Drain Concrete	M20	12/02/2017	12/03/2017	150.71 X 150.42 X 150.07	22670	8.198	532.7	23.5	

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